



CEF-10

RENTAL THERMAL OXIDIZER SYSTEM

PolSys Services' **Rental Portable Thermal Oxidizer (Model# CEF-10)** is an air pollution abatement technology configured to handle high or low VOC concentrations in customer process streams. Designed to accommodate high energy process discharge streams with low or no excess air for combustion, Thermal Oxidizers (under the right conditions) can potentially provide most of the necessary temperature / energy for destruction with minimal additional supplemental fuel. The CEF-10 has the ability to handle process gas streams with up to 10 MMBTU/h in volatile loading.

Thermal Oxidizers are proven technologies for oxidizing various pollutants such as VOCs and other hydrocarbons. These systems operate over a large process window and can safely handle fluctuations in waste stream flow rates and compositions while providing simple and reliable operation.



BASE SYSTEM COMPONENTS:

- DOT-Approved Flat-bed Trailer
- Painted Carbon Steel Outer Shell
- System Fan with VFD & Premium Efficiency Motor
- NFPA 86 Compliant
- High Temperature Ceramic Insulation
- Dilution/Tertiary Air Blower with VFD for high VOC processes
- Automatic Pilot Ignition Systems
- UL Listed, Nema 4 Control Panel
- Allen Bradley PLC
- NFPA Safety Interlocks
- Compliance Sample Ports

SPECIAL FEATURES:

- >99% Destruction Rate Efficiency depending on process conditions
- Burner options for fuel input (natural gas, propane, as well as low NOx heating elements)
- High turndown capabilities / 10:1 or greater
- Fully integrated burner management systems
- Programmable Logic Controller (PLC) with customizable instrumentation package
- Thermocouple temperature control
- Temperature data logging capabilities

TYPICAL APPLICATIONS:

• Tank/Pipeline Degassing	• Oil & Gas Processes
• Chemical Processing	• Recycling & RNG
• Remediation	Applications
• Manufacturing	



PolSys Services
Reliability. Safety. Compliance.

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SYSTEM SPECIFICATIONS

- Maximum Air Flow Capacity: 6,000 SCFM
- Minimum Air Flow: 800 SCFM
- Burner Capacity: 10MMBTU/HR
- Inlet Connection: 4" and 6" Diameter
- Stack Height: ~20'
- Stack Diameter: 42"
- Maximum Thermal Operating Temperature: 1800°F
- Maximum Hydrocarbon Throughput:
 - High VOC Mode: ~10 MMBTUH or 1,500 SCFM
 - Thermal Mode: up to 50% LEL or 6,000 SCFM
- Time to Reach Operating Temperature: \leq 15 min. from cold start
- Power Requirements: 480V/3PH/60HZ 71.2 FLA
- Trailer: 25,000 LB Dual Axle, 40' length

